

Product datasheet for **RG207872**

RFX1 (NM_002918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFX1 (NM_002918) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RFX1
Synonyms:	EFC; RFX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207872 representing NM_002918
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACACAGGCGTATACTGAGCTACAGGCAGCCCCGCCACCATCCCAGCCGCCACAGGCCCCGCCAC
 AAGCCCAGCCCCAGCCGCCACCGCCACCCAGCCAGCCCGCAGCCACCCACCGCTGC
 TGCCACCCTCAGCCCCAATATGTCACCGAGCTGCAGAGCCCCAGCCAGGCACAGCCACCGGTGGC
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 CGCCTGCACCCAGCAGTACATCGTGGTCACTGTCTGAAGGTGCCATGCGGGCCAGCGAGACAGTGTG
 GGAGGCCAGCCCCGGCTCACCGCCAGCCAGCCGGCGTTCCTACTCAGGTGGTTCAGCAGGTGCAGGGC
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 CAGCTCCAGCAGGTGCCCGTCCACACGTGACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCA
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 CTGCGAACCCGCGTCTGGGCACCAGGGGCACTCCAAGTACCACTACTATGGCTGCGCATCAAGGCCA
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 GGAGCCGCGGCCAAGCTGGCGCGGACTGACGCGCGGCTCTTCGTGCAGGCGCTGCCCTCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207872 representing NM_002918
 Red=Cloning site Green=Tags(s)

MATQAYTELQAAPPPSQPPQAPPQAQPQPPPPPPAAPQPPPTAAATPQPQYVTELSQPQQAQPPGG
 QKQYVTELPVAPAPSQPTGAPTPSPAPQQYIVVTVSEGAMRASETVSEASPGSTASQTGVPTQVVQVQG
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 ASSGSMMPYVSGSQVVAASASTGAGASNSSGGGGGGGGGGGGGGSGTGSGGGSGAGTYVIQGGYM
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 TGLSDISAQVQQYQFLDASRSLPDFTELDLQGVLPPEGVPGDIKAFQVLYREHCEAIVDMVNLQFTL
 VETLWKTFRWYNLSQPSEAPPLAVHDEAEKRLPKAILVLLSKFEPVLQWTKHCDNVLVYQGLVEILIPDVL
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 INQMLSDLNRVDFANVQEQASWVCRCDRVRLEQDFKVTLLQQNSLEQWAAWLDGVVSVQVLPKYQGS
 GFPKAAKFLLLKWSFYSSMVIDLTLRSAASFGSFHLIRLLYDEMYYLIEHRVAQAKGETPIAVMGEFA
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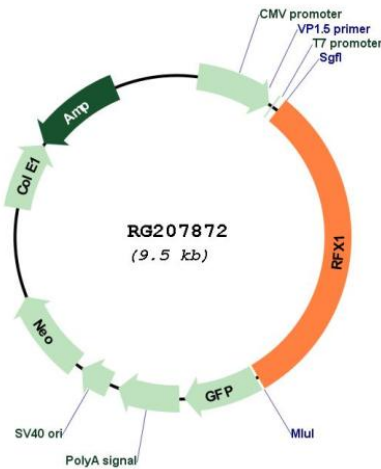
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_002918

ORF Size: 2937 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_002918.3](#), [NP_002909.3](#)

RefSeq Size: 4347 bp

RefSeq ORF: 2940 bp

Locus ID: 5989

UniProt ID: [P22670](#)

Cytogenetics: 19p13.12

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the regulatory factor X (RFX) family of transcription factors, which are characterized by a winged-helix DNA-binding domain. The encoded transcription factor contains an N-terminal activation domain and a C-terminal repression domain, and may activate or repress target gene expression depending on cellular context. This transcription factor has been shown to regulate a wide variety of genes involved in immunity and cancer, including the MHC class II genes and genes that may be involved in cancer progression. This gene exhibits altered expression in glioblastoma and the autoimmune disease systemic lupus erythematosus (SLE). [provided by RefSeq, Jul 2016]